

(18)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 01291153 A

(43) Date of publication of application: 22.11.89

(51) Int. Cl

G01N 27/28

G01N 27/30

(21) Application number: 83121002

(71) Applicant: MATSUSHITA ELECTRIC IND CO LTD

(22) Date of filing: 18.05.88

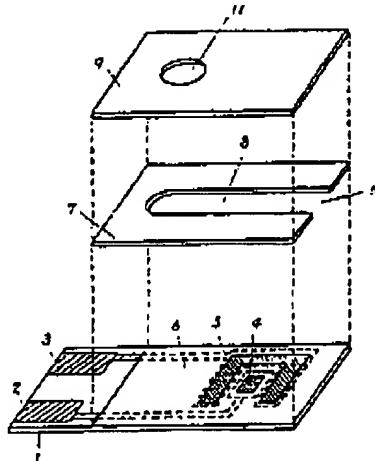
(72) Inventor: NANKAI SHIRO
KAWAGURI MARIKO
FUJITA MAYUMI
IJIMA TAKASHI

(54) BIOSENSOR

(57) Abstract:

PURPOSE: To easily measure the concn. of a substrate with an extremely small volume of liquid to be inspected and with good accuracy by forming a space part including a reaction layer on a substrate having an electrode system and the reaction layer.

CONSTITUTION: The substrate 1 and the respective members of a spacer 7 and cover 9 consisting of plastic plates are adhered and integrated to attain the relative positions shown by broken lines. Namely, the spacer 7 has about 300 μ m thickness and is formed to the shape in which the central part is cut to a U shape of 2mm width and 7mm length. The end part of the cut part constitutes an introducing port 10 for a sample liquid when the spacer is integrated. The central part forms the space part 8. The cover has a hole of 2mm diameter which constitutes a discharge port 11 when integrated. The sample liquid is introduced from the port 10 into the inside when the port 10 at the front end of the glucose sensor constituted in such a manner is brought into contact with the sample liquid, standard glucose liquid. The air in the space part 8 is rapidly discharged from the discharge port 11 at this time and the space part 8 is simultaneously filled with the sample liquid up to the level near the discharge port 11. The concn. of the substrate is thereby measured with the extremely small volume of the liquid to be inspected and with the good accuracy.



COPYRIGHT: (C)1989,JPO&Japio